



Attorney Docket No. 1030705-000185

Receipt  
TFW

In re Patent Application of )  
Philipp Ott ) Group Art Unit: 2872  
Application No.: 10/534,247 ) Examiner:  
Filed: May 10, 2005 ) Confirmation No.: 2904  
For: DEVICE FOR SCANNING A YARN )  
WITH A LIGHT BEAM (AS AMENDED) )

### REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

Commissioner for Patents  
Office of Initial Patent Examination  
Customer Service Center  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a copy of the Official Filing Receipt marked in red to show corrections that are needed. The corrections are as follows:

Please change the Foreign Applications country from "Switzerland" to - Germany - ; and please change the title to - Device for scanning a yarn with a light beam - .


Issuance of a corrected Official Filing Receipt is respectfully requested.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date: February 24, 2006

By:

  
James A. LaBarre

for Registration No. 28,632 (Reg No 33096)

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPL NO.	FILING FOR 371 (c) Docket & Trademark Office	ART. NO.	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/534,247	10/13/2005	2872	1030	030705-185	4	7	1

CONFIRMATION NO. 2904

## FILING RECEIPT



\*OC000000018007115\*

21839

BUCHANAN INGERSOLL PC  
(INCLUDING BURNS, DOANE, SWECKER & MATHIS)  
POST OFFICE BOX 1404  
ALEXANDRIA, VA 22313-1404

Date Mailed: 02/14/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Philipp Ott, Wernetshausen, SWITZERLAND;

## Assignment For Published Patent Application

USTER TECHNOLOGIES AG, Uster, SWITZERLAND

Power of Attorney: The patent practitioners associated with Customer Number 21839.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/CH03/00727 11/06/2003

## Foreign Applications

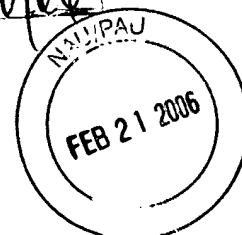
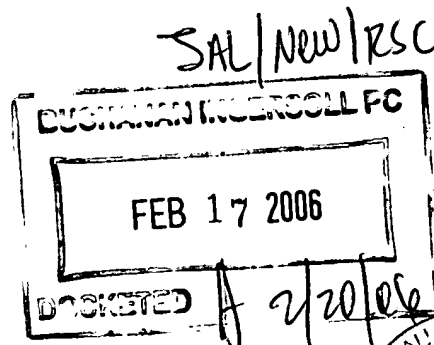
SWITZERLAND 1901/02 11/13/2002  
Germany

Projected Publication Date: 05/18/2006

Non-Publication Request: No

Early Publication Request: No

Title



Device for scanning a ~~thread~~ <sup>yarn with a light</sup> by an optical beam

**Preliminary Class**

359

**PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

---

**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

•The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

**PCT Postcard**

**10/534247**

**Applicant/**

**Inventor:** Philipp Ott

**Appl. No.:** \_\_\_\_\_

**Docket No.:** 030705-185

**Working Atty.:** James A. LaBarre / rsc

**Date:** May 10, 2005

**Title:** DEVICE FOR SCANNING A YARN WITH A LIGHT BEAM

**JCO3 Rec'd PCT/PTO 10 MAY 2005**

Dkt. Clerk Initials



The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:

- ☐ Transmittal Letter to the U.S. Receiving Office/Response to Invitation (PTO-1382)
- ☒ Transmittal Letter to U.S. Designated/Elected Office (DO/EQ/US) Concerning Filing Under 35 USC 371 (PTO-1390)
- ☐ PCT Request (PCT/RO/101) ( \_\_\_\_\_ ) pgs.

INCLUDING:

- ☒ Specification (pages 1 - 12 )
- ☒ Claims (claims(s) 1 - 7 , 2 pgs.)
- ☒ Drawings (Fig(s). 1 - 6 , 4 pgs.)
- ☐ Abstract of the Disclosure
- ☐ PCT Fee Calculation Sheet Annex to the Request (PCT/RO/101 (Annex))
- ☐ PCT Demand (PCT/IPEA/401) International Preliminary Examination Report
- ☐ PCT Fee Calculation Sheet Annex to Demand for Int'l. Preliminary Exam. (PCT/IPEA/401 (Annex))

- ☐ PCT Notice of Confirmation of Precautionary Designations (PCT/RO/144)
- ☐ Executed Declaration/Power of Attorney
- ☐ Unexecuted Declaration/Power of Attorney
- ☐ Assignment/Assignment Recordation Form Cover Sheet (PTO-1595)
- ☐ Appointment of Agent
- ☒ Preliminary Amendment
- ☐ Information Disclosure Statement Transmittal
- ☒ Information Disclosure Citation (PTO-1449)
- ☒ Information Disclosure Statement w/ 0 document(s)
- ☒ Patent Application Data Sheet
- ☒ Gen. Authorization for Petition for Ext. of Time and Payment of Fees
- ☐ Diskette

- ☐ Check for \$ \_\_\_\_\_ is enclosed
- ☐ Check for \$ \_\_\_\_\_ is enclosed
- ☐ Charge \$ \_\_\_\_\_ to Deposit Account
- ☒ Charge \$ 900.00 to credit card. Form PTO-2038 is attached.
- ☒ PCT/IPEA/409

- ☒ PCT/ISA/210
- ☒ WO 2004/044579 A1
- ☐

If submitting documents via Express Mail, provide the Express Mailing Label No. below:

**Express Mail Mailing Label No.**

**PCT Postcard**

**Applicant/**

**Inventor:** Philipp Ott

**Appl. No.:** \_\_\_\_\_

**Docket No.:** 030705-185

**Working Atty.:** James A. LaBarre / rsc

**Date:** May 10, 2005

**Title:** DEVICE FOR SCANNING A YARN WITH A LIGHT BEAM

Dkt. Clerk Initials



The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:

- ☐ Transmittal Letter to the U.S. Receiving Office/Response to Invitation (PTO-1382)
- ☒ Transmittal Letter to U.S. Designated/Elected Office (DO/EQ/US) Concerning Filing Under 35 USC 371 (PTO-1390)
- ☐ PCT Request (PCT/RO/101) ( \_\_\_\_\_ ) pgs.

INCLUDING:

- ☒ Specification (pages 1 - 12 )
- ☒ Claims (claims(s) 1 - 7 , 2 pgs.)
- ☒ Drawings (Fig(s). 1 - 6 , 4 pgs.)
- ☐ Abstract of the Disclosure
- ☐ PCT Fee Calculation Sheet Annex to the Request (PCT/RO/101 (Annex))
- ☐ PCT Demand (PCT/IPEA/401) International Preliminary Examination Report
- ☐ PCT Fee Calculation Sheet Annex to Demand for Int'l. Preliminary Exam. (PCT/IPEA/401 (Annex))

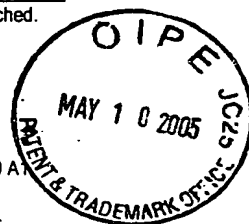
- ☐ PCT Notice of Confirmation of Precautionary Designations (PCT/RO/144)
- ☐ Executed Declaration/Power of Attorney
- ☐ Unexecuted Declaration/Power of Attorney
- ☐ Assignment/Assignment Recordation Form Cover Sheet (PTO-1595)
- ☐ Appointment of Agent
- ☒ Preliminary Amendment
- ☐ Information Disclosure Statement Transmittal
- ☒ Information Disclosure Citation (PTO-1449)
- ☒ Information Disclosure Statement w/ 0 document(s)
- ☒ Patent Application Data Sheet
- ☒ Gen. Authorization for Petition for Ext. of Time and Payment of Fees
- ☐ Diskette

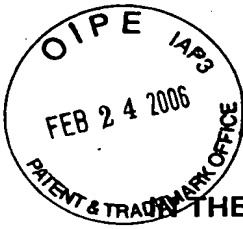
- ☐ Check for \$ \_\_\_\_\_ is enclosed
- ☐ Check for \$ \_\_\_\_\_ is enclosed
- ☐ Charge \$ \_\_\_\_\_ to Deposit Account
- ☒ Charge \$ 900.00 to credit card. Form PTO-2038 is attached.
- ☒ PCT/IPEA/409

- ☒ PCT/ISA/210
- ☒ WO 2004/044579 A1
- ☐

If submitting documents via Express Mail, provide the Express Mailing Label No. below:

**Express Mail Mailing Label No.**





Patent  
Attorney's Docket No. 030705-185

**THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	Group Art Unit: Unassigned
Philipp OTT	)	Examiner: Unassigned
Application No.: Unassigned	)	Confirmation No.: Unassigned
Filed: May 10, 2005	)	
For: DEVICE FOR SCANNING A YARN	)	
WITH A LIGHT BEAM (As Amended)	)	

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Prior to examination, kindly amend the above-captioned application as follows:

*Handwritten signature and date:*  
5-10-05

**AMENDMENTS TO THE SPECIFICATION:**

Please replace the title with the following amended title:

**"DEVICE FOR SCANNING A ~~THREAD BY AN OPTICAL~~ YARN WITH A LIGHT  
BEAM"**

Please add the following new paragraph immediately after the title appearing on page 1.

This disclosure is based upon German Application No. 1901/02, filed November 13, 2002, and International Application No. PCT/CH2003/000727, filed November 6, 2003, the contents of which are incorporated herein by reference.

Please add on a new line the following at page 1, line 2:

**BACKGROUND OF THE INVENTION**

Please add on a new line the following at page 2, line 22:

**SUMMARY OF THE INVENTION**

Please add on a new line the following at page 4, line 21:

**BRIEF DESCRIPTION OF THE DRAWINGS**

Please add on a new line the following at page 5, line 7:

**DETAILED DESCRIPTION**

**IN THE ABSTRACT:**

Please add the following Abstract:



**ABSTRACT**

The invention relates to a device for scanning a thread, which is displaceable in the longitudinal direction thereof inside a measuring slot, by means of an optical beam emitted by a light source. The device includes a receiver of light reflected on the thread and a unit for processing electrical signals received by the receiver. The aim of the invention is to develop a small-sized device which is easy to operate and which makes it possible to detect foreign matter contained in the thread in a most selective manner at a high sensitivity. For this purpose, the light emission in at least two wavelength ranges is carried out by means of a light source, with these wavelength ranges being determined by two main wavelengths.

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) Device for scanning a yarn (2) that is moved in its longitudinal direction in a measuring gap (1) with a light beam (3) from a light source, ~~which device has~~ comprising a receiver (5, 6) for light reflected at the yarn, ~~and a unit (9) for processing electrical signals from the receiver, characterised in that~~ and a single light source (4) ~~is provided~~ for emitting light in at least two wavelength regions (29, 30), the wavelength regions being determined by two main wavelengths, (32, 33) ~~and the said unit (9) for processing electrical signals from the receiver for received light having~~ including a computer which forms a vector (44, 45, 46) from the values for each of the at least two specified wavelength regions and forms a sum vector (47) from the vectors.

2. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein the main wavelengths determine two colours in the region of wavelengths of visible light.

3. (Currently Amended) Device according to claim 2, ~~characterised in that~~ wherein the main wavelengths relate to the colours red, green and blue.

4. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein the single light source (4) is in the form of a light-emitting diode which is able separately to emit visible light in three colours in the visible range.

5. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein the single light source and a receiver (6) have principal axes (~~11, 12~~) for the emission and reception of light which together span a plane that is transverse to the longitudinal direction of the yarn.

6. (Currently Amended) Device according to claim 1, ~~characterised in that~~ wherein for the end point (~~51~~) of the sum vector (~~47~~) in a space (~~42~~) a region (~~48, 49, 50~~) is delimited which indicates whether the electrical signal from the receiver processed to form the sum vector indicates a foreign body in the yarn.

7. (Currently Amended) Device according to claim 6, ~~characterised in that~~ wherein the space (~~42~~) forms a cube which is formed by axes (~~52, 53, 54~~) along which values for the intensity of three main wavelengths are plotted.

REMARKS

By way of the foregoing amendments, the specification has been amended to incorporate the priority information and the title headings. The title has been amended to conform to the English language translation. The Abstract has been added to conform the application to the corresponding PCT Application No. PCT/CH2003/000727. Claims 1-7 have been amended to conform with conventional U.S. format. No new matter has been introduced by these changes.

It is requested that the application be examined on the basis of the specification, the Abstract, and the claims as amended.

Early and favorable consideration with respect to this application is respectfully requested.

Should any questions arise in connection with this application, the undersigned respectfully requests that he be contacted at the number indicated below.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: May 10, 2005

By: \_\_\_\_\_

  
James A. LaBarre  
Registration No. 28,632

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620